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Press Release

**Jordi Tura receives “PhD Thesis Award” from
ICFO - The Institute of Photonic Sciences**

ICFO - The Institute of Photonic Sciences (Barcelona, Spain) has selected Jordi Tura, a young postdoctoral fellow in the Theory Division of Professor Ignacio Cirac at the Max Planck Institute of Quantum Optics (Garching near Munich), for the PhD Thesis Award 2015 “in recognition of the exceptional thesis: Characterizing Entanglement and Quantum Correlations Constrained by Symmetry.” With this award, ICFO wishes to highlight and reward extraordinary PhD students. Together with the experimentalists Federica Beduini and Juan A. Torreño, Jordi Tura received the award in a ceremony held on 13 December 2016.



Born in Girona (Spain) in 1987, Jordi Tura began his education with the study of Mathematics and Telecommunications Engineering at the CFIS-Center for Interdisciplinary Studies at the Polytechnic University of Catalonia. Having received a Master of Science in Applied Mathematics in 2011, he pursued a PhD in Photonics at ICFO in the group of Prof. Maciej Lewenstein where he completed his thesis in July 2015. He first continued to work as a postdoctoral researcher at ICFO until he joined the group of Prof. Ignacio Cirac in September 2016 in the frame of the CELLEX-ICFO-MPQ Postdoctoral Program.

“The central topic of my thesis was the study and characterization of entanglement and nonlocal correlations constrained under symmetries,” the young scientist explains. “It contains original results in these four threads of research: entanglement in the symmetric states, nonlocality detection in many-body systems, the non-equivalence between entanglement and nonlocality, and elemental monogamies of correlations. My current research interests also combine various disciplines: I would like to bring together the quantum information insights gained during my PhD with the world leading expertise on tensor networks of Cirac’s group, applying both to the exciting field of quantum machine learning.” Tura’s thesis was also nominated as an outstanding PhD thesis by AMOP section of the German Physical Society and has recently been published in the Springer Theses series. *Olivia Meyer-Streng*

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